

# **RU2140094C1: OPTICAL POLARIZER**

Country: RU Russian Federation

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## **Abstract:**

FIELD: optics.

SUBSTANCE: optical polarizer has birefringent anisotropically absorbing layer with thickness which realizes interference extremum for at least one linearly polarized light component. Anisotropically absorbing layer has one as minimum refraction index growing with rise of length of wave in some range of lengths of waves. Layer can be produced from low-molecular or polymer liquid crystal or nonliquid crystal substances or their mixtures presenting dichroic dyes or containing them in the capacity of component. Layer can have maximum value of refraction index not less than 1.9 and maximum absorption coefficient not less than 0.1. In addition polarizer can include optically isotropic layer which refraction index is fair or close to one of refraction indices of birefringent layer or birefringent layer one of which refraction indices is fair or close to one of refraction indices of birefringent anisotropically absorbing layer and which second refraction indices differentiate. EFFECT: provision for high polarization characteristics in wide spectral region with usage of more than ten layers. 16 cl, 3 dwg

## **Family**

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WO9931535C2 Sept. 16, 1999 Dec. 15, 1998 POLARISER AND LIQUID CRYSTAL DISPLAY ELEMENT

WO9931535A1 June 24, 1999 Dec. 15, 1998 POLARISER AND LIQUID CRYSTAL DISPLAY ELEMENT

RU2147759C1 April 20, 2000 March 16, 1998 POLARIZER

RU2143128C1 Dec. 20, 1999 Feb. 24, 1998 POLARIZER

RU2143125C1 Dec. 20, 1999 March 2, 1998 POLARIZER

RU2140663C1 Oct. 27, 1999 Feb. 24, 1998 MONOCRYSTALLINE INDICATING ELEMENT

RU2140662C1 Oct. 27, 1999 Feb. 24, 1998 OPTICAL POLARIZER

RU2140097C1 Oct. 20, 1999 Feb. 24, 1998 OPTICAL POLARIZER

RU2140094C1 Oct. 20, 1999 Jan. 12, 1998 OPTICAL POLARIZER

RU2136025C1 Aug. 27, 1999 Dec. 16, 1997 DICHROIC LIGHT POLARIZER

JP2001517329T2 Oct. 2, 2001 Dec. 15, 1998

EP0961138A4 May 16, 2001 Dec. 15, 1998 POLARISER AND LIQUID CRYSTAL DISPLAY ELEMENT

EP0961138A1 Dec. 1, 1999 Dec. 15, 1998 POLARISER AND LIQUID CRYSTAL DISPLAY ELEMENT

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